DTR 5520

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EN High-Definition Digital Terrestrial Receiver

designed by Pace

PHILIPS

ENGLISH

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1 Important

Thank you for purchasing a Philips product. Take time to read this user manual before using your HD receiver. It provides important information on the installation, operation and safety of your HD receiver. Keep this manual next to your HD receiver for future reference.

	Disposal of your old product Your product is designed and manufactured with high quality materials and components, which can be recycled and reused. When this "crossed-out wheeled bin" symbol is attached to a product or its packaging, it means that the product is covered by the European Directive 2002/96/EC. Please inform yourself about the local separate collection process for electrical and electronic products. Please act according to your local rules and do not dispose of your old products with your normal household waste. The correct disposal of your old product will help prevent potential negative consequences for the environment and human health.
	The "Material recyclability" symbol affixed on the package cardboard and user manual means that these parts are recyclable. So do not dispose of them with your normal household waste.
	The "Material recyclability" symbol affixed on plastic packaging parts means that these parts are recyclable. So do not dispose of them with your normal household waste.
	The "Green Dot" symbol affixed on the cardboard means that the manufacturer of the product has financially contributed to the "Avoidance and Recovery of Packaging Waste" organization.

1.1 Safety information

Your HD receiver is powered using a 12 V power supply unit. Your HD receiver has been manufactured to meet the appropriate safety standards, but you must follow the below instructions to operate it safely. Keep these instructions for future reference.

Warnings

- Your HD receiver does not contain any user-serviceable parts. Do not attempt to open it. All maintenance work must be carried out by qualified services centres.
- Before connecting the 12 V power supply unit to the mains, check that the mains supply voltage corresponds to the voltage printed on it. If the mains voltage is different, consult your local dealer.
- The 12 V power supply unit has been designed for indoor use only.
- Use only the original 12 V power supply unit.
- To prevent fire or shock hazard, do not expose your HD receiver to rain or moisture.
- Place your HD receiver on a firm surface, and do not cover the ventilation openings with items such as newspapers, table clothes, curtains, etc.
- Do not install your HD receiver near heat sources such as radiators, stoves or other equipment that produce heat. Protect it from direct sunlight.
- In order to ensure a free flow of air around your HD receiver, allow at least 5 cm of space above and around it. This prevents overheating of your HD receiver.
- Do not place any combustible objects such as candles, etc., on your HD receiver.
- Never stand objects filled with liquids, such as vases, on top of your HD receiver. Do not place anything on your HD receiver that might drip or spill into it. If this happens, disconnect the 12 V power supply unit from the wall socket and have your HD receiver checked at any authorized service centre.
- The batteries installed in the remote control should not be exposed to excessive heat such as sunshine, fire or the like.

Please also pay attention to all the warnings and cautions listed throughout this manual.

1.2 Reducing power consumption

Your HD receiver is designed to reduce its impact on the environment and complies with the European Directive 2009/125/EC. This is part of Philips' ongoing commitment to lead the way in environmental responsibility.

It has a standby mode of operation that needs very little power. See the table below and please note that:

- When your HD receiver is in the standby mode, you save energy (and therefore money) and reduce carbon dioxide emissions that damage the environment.
- You use the standby button on your HD receiver or remote control to switch between on and standby modes. In addition, if your HD receiver is on, but you do not press any button on it or your remote control for 3 hours (configurable - see 'Automatic eco mode' on page 24), your HD receiver will automatically get into the standby mode.
- You use the ON/OFF switch on the rear panel of your HD receiver to turn off your HD receiver.
- If you are not going to use your HD receiver for several days, you can cut its energy consumption to zero by unplugging it from the mains wall socket.
- In the off and standby modes, your HD receiver cannot receive updates from the network. However, at receiver wake-up, you will be prompted by a message if an update notification has been received.

Mode	Front-panel standby indicator and display	Typical power consumption (W)	Typical annual energy use (kWh)
Power adaptor unplugged	Not lit up	0	0
Standby	Standby indicator is red	0.86	15*
Active Standby	Standby indicator is orange	5.00	
On	A channel number is shown on the display	5.80	

* Based on your HD receiver being On for 4 hours daily and being in standby for 20 hours.

2 Your HD receiver

Congratulations on your purchase and welcome to Philips!
To fully benefit from the support that Philips offers, register your product at **www.philips.com/welcome**.

2.1 What's in the box?

HD receiver

12 V power supply unit

HDMI cable

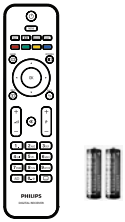
RF cable

User manual

Quick start guide

Freeview flyer

Retune flyer



Remote control and 2 x AAA batteries

Caution

Plastic bags can be dangerous.
To avoid suffocation, keep the bag away from babies and children.

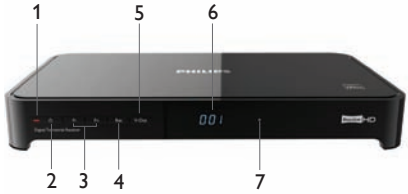
2.2 What you also need (not supplied)?

TV

SCART cable (required only if you have a standard-definition TV or if you want to record a programme to an external recording device such as a Video or DVD-R recorder)

2.3 Overview

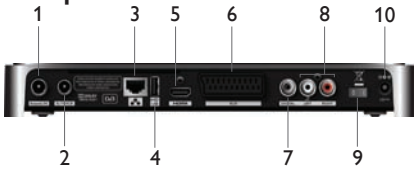
Front panel



Front Panel

1 Standby indicator
2 Standby button
3 Programme +/- buttons
4 Resolution button
5 V-Out button
6 Display
7 HD indicator

Rear panel

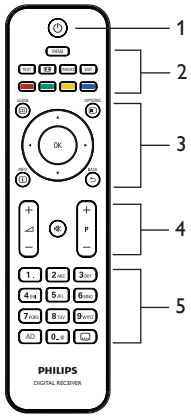


Rear Panel

1 Antenna IN*
2 Antenna output to TV/VCR (antenna signal)*
3 RJ45 Ethernet connector*
4 USB 2.0 connector*
5 HDMI™ connector*
6 AUX SCART connector*
7 DIGITAL audio out (digital)*
8 L/R audio out (analogue)*
9 ON/OFF switch
10 12 V power connector*

* Safe extra low voltage

Remote control



Remote control

1 Standby
2 Menu, Text, Picture format, Radio, Exit
3 Guide, Options, Up/Down, Left/Right, OK, Info, Back
4 Volume control, Programme +/-, Mute
5 Alphanumeric keypad, Audio description, Subtitles

2.4 How to read this manual?

Danger
Describes situations of injury or loss of life.

Warning
Describes actions that may cause damage to the product.

Caution
Describes actions that are required to avoid dangerous or illegal situations.

Note
Additional information.

Tip
Information that is useful to know but not essential to the task. For example, information about alternative use.

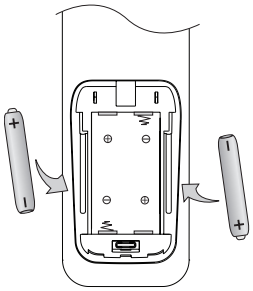
2.5 How to use the menus?

1. Press **MENU**, **GUIDE**, **OPTIONS** or **INFO** on your remote control to display the **Main** menu, **TV guide**, **Tools** menu or channel banner respectively.
2. Use ▲ / ▼ / ◄ / ► to navigate through the menus and change any setting.
3. Press ◄ or **OK** to confirm your choice.
4. Press **EXIT** to remove the menu.

For more information, see pages 13 to 27.

3 Getting started

3.1 Preparing your remote control



1. Remove the battery cover by gently pressing down in the small circle on the cover and sliding it downwards.
2. Insert the two AAA batteries as shown. Be sure to match the + and - marks on the batteries to their respective marks inside the battery compartment.
3. Replace the battery cover.

Note
For better reception, point your remote control directly at the front panel of your HD receiver while pressing any button.

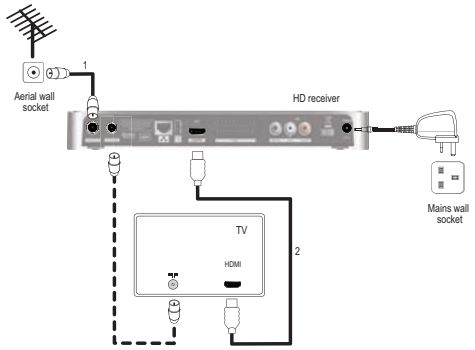
Caution
Do not leave batteries in your remote control for long periods of time without use. Replace both batteries at the same time. Do not dispose of used batteries with your domestic waste. Used batteries should be recycled at the end of their useful life. Do not dispose of batteries in a fire.

3.2 Connecting your HDTV

Danger

Risk of electric shock!

Before making any connections, ensure that your equipment is disconnected from the mains.



1. Connect the aerial cable (not supplied) from the aerial wall socket to the **Antenna IN** connector on the rear panel of your HD receiver.
2. Use the supplied HDMI cable to connect the **HDMI** connector on the rear panel of your HD receiver to the HDMI input connector of your TV. For the next step, note the chosen HDMI input of your TV (e.g. 'HDMI 1').
3. Connect your TV to the mains and select the correct A/V source on your TV. This should correspond to the HDMI input connector to which your HD receiver is connected. If necessary, refer to your TV's user manual for instructions.

Notes

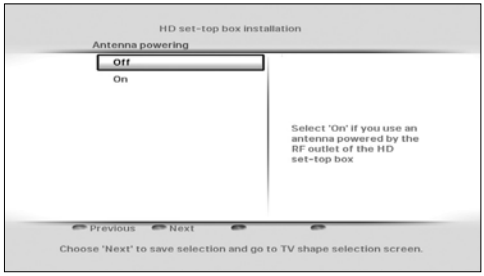
- Optionally, you can also use the supplied RF cable to connect the RF output connector (labelled **To TV/VCR**) of your HD receiver to the RF input connector of your TV.
- To connect your HD receiver to your standard-definition TV, see page 29.

3.3 Installing your HD receiver

Before you start the installation, make sure you have made all the required connections.

1. Connect the 12 V power supply unit to the 12 V input connector on the rear panel of your HD receiver.
2. Connect the mains plug to the mains wall socket. Ensure that the **ON/OFF switch** on the rear panel of your HD receiver is switched on (is in the '1' position).
   Your HD receiver displays a welcome message after a few seconds.

3. Press the **green** button to start the installation.
   The **Antenna powering** menu appears.

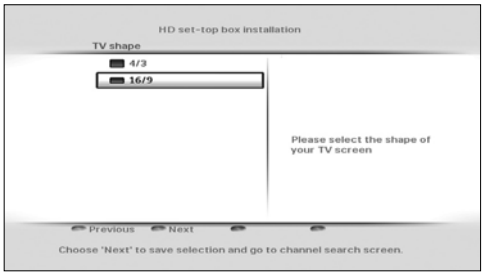


4. Let the **Antenna powering** setting be **Off** unless you use an indoor antenna that can be powered by the coaxial cable connected to the **Antenna IN** socket of your HD receiver (see note).

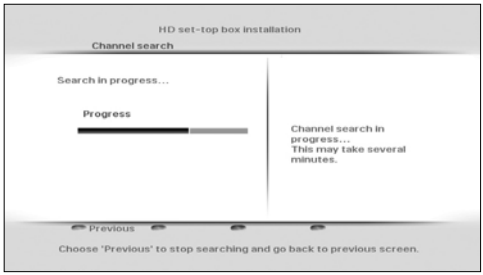
Note

Your HD receiver can only deliver 50 mA current under 5 V, so refer to your indoor antenna's user manual to check if its power requirement fits the capability of your HD receiver.

Press the **green** button to confirm.
The **TV shape** menu appears.

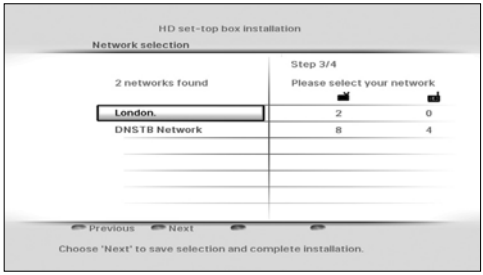


5 Let the **TV shape** setting be **16:9** if you use an HDMI connection to your TV. Press the **green** button to confirm and start scanning for the available channels.



Note

If you are in an area that receives signals from more than one network and possibly variant of the same channel (e.g. BBC1, BBC1 Scotland), then your HD receiver will prompt you to select the network and channel variant that you want in the **All TV** and **All Radio** lists.

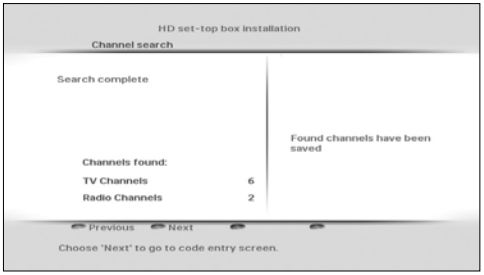


Use ▲ / ▼ to highlight the network that you want to install and press the **green** button. A progress screen displays to confirm that the search is taking place.

When the search is complete, a screen displays the number of TV and radio channels that your HD receiver has found. Your HD receiver automatically saves these channels. Press the **green** button to go to the next step.

Note

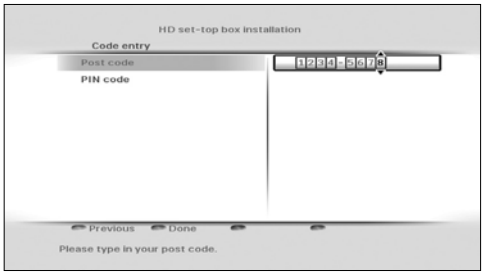
In case your HD receiver does not find any channels, see the 'What if no channels are found?' section on page 12.



Note

Digital terrestrial broadcasting is progressing throughout the UK. Please note that the reception of digital signals may need to be verified as it can be adversely affected by physical elements, such as mountainous areas, high buildings, etc. When analogue broadcasting in your region is switched off, there should be a quality improvement in digital broadcasting. As digital switch over happens, the number of digital channels available in each region may also increase. Please visit this website to find out when the digital switch over is scheduled for your area: www.digitaluk.co.uk

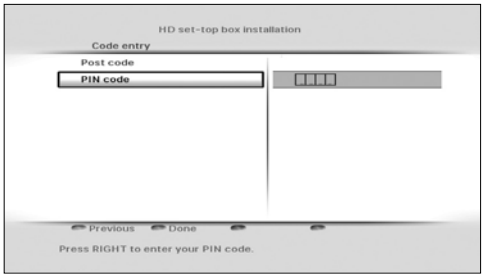
6 On the **Code entry** menu, use ▲ / ▼ or the **number** buttons to enter your area's postal code, and then press **OK** to highlight **PIN code**.



Note

Entering your postal code is mandatory. You will not be able to complete the first installation setup without entering your postal code.

To change the default PIN code (0000), press ► and use the **number** buttons to enter you new PIN code. You will then be prompted to re-enter your PIN code to confirm.



Note

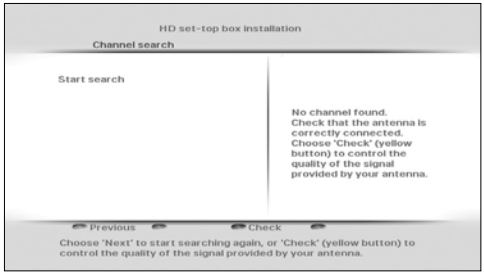
Your new PIN code can be any 4-digit number other than the default PIN code (0000).

Press the **green** button to confirm your choice and complete the installation.

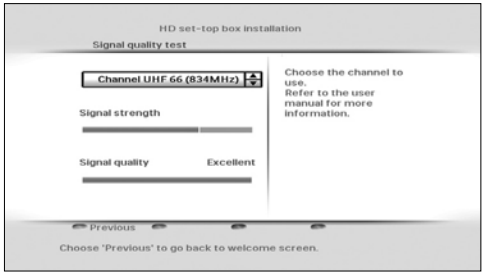
You can now start using your HD receiver.

3.4 What if no channels are found?

In case your HD receiver does not find any channels, check your connections (see pages 10 and 29) and press the **red** button to start the first installation setup again.



If your HD receiver is still not able to find any channels, press the **yellow** button. Use ▲ / ▼ to manually check the quality and strength of the signals received by your antenna in various channel frequencies.



If the **Signal strength** bar is green, then your antenna and HD receiver are properly connected. If it is red, then you need to first check your connection. If the **Signal quality** bar is green, then you can be sure that you are receiving digital broadcast signals. If your reception is not optimal (few channels or "blocky" image), you must check your antenna installation as it may need to be realigned or fixed.

4 Using your HD receiver

4.1 Standby/wake up

To put your HD receiver into standby, press ⏻ on your HD receiver's front panel or remote control. To take your HD receiver out of standby, press ⏻ again. You can also press **BACK** ⮌, **P+**/**P-** or any **number** button on your remote control to wake up your HD receiver.
See page 6 for more information.

4.2 Switching on and off

Use the **ON/OFF** switch on the rear panel of your HD receiver to switch your HD receiver on/off. See page 6 for more information.

4.3 Changing channels

To change channels, use the **P+**/**P-** on your remote control or your HD receiver's front panel. You can also use the **number** buttons on your remote control.
Press **BACK** ⮌ to switch to the last channel you were watching.
You can also use the on-screen channel lists or channel banner to change channels (see sections 4.5 and 4.6).

Note

Initially, HD programmes are available only on channels 50 and 51. Switch to these channels to watch HD programmes.

4.4 Adjusting volume

To increase or decrease the volume, press **VOL+**/**VOL-**. The volume level is shown briefly on your TV.
To mute or restore the sound, press 🔇. When you mute your sound, the 🔇 icon is shown in the top right corner of your TV. This icon disappears after a few seconds.

4.5 Using the channel banner

Channel information

When you change a channel, the channel banner appears briefly to show information about the current programme. By default, it appears for 5 seconds. To set the length of time that the channel banner remains on-screen, see page 23.

Note

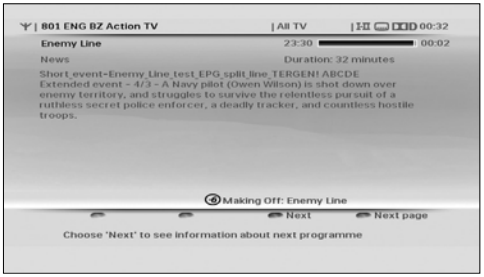
While recording a programme to an external recording device such as a VCR, the channel banner overlay will not be recorded.

Changing channel

To change the channel, display the channel banner by pressing **INFO**.

1. When the channel banner is on-screen, use ▲ / ▼ to see what programmes are currently showing on other channels. If you see a programme you want to watch, press **OK**.

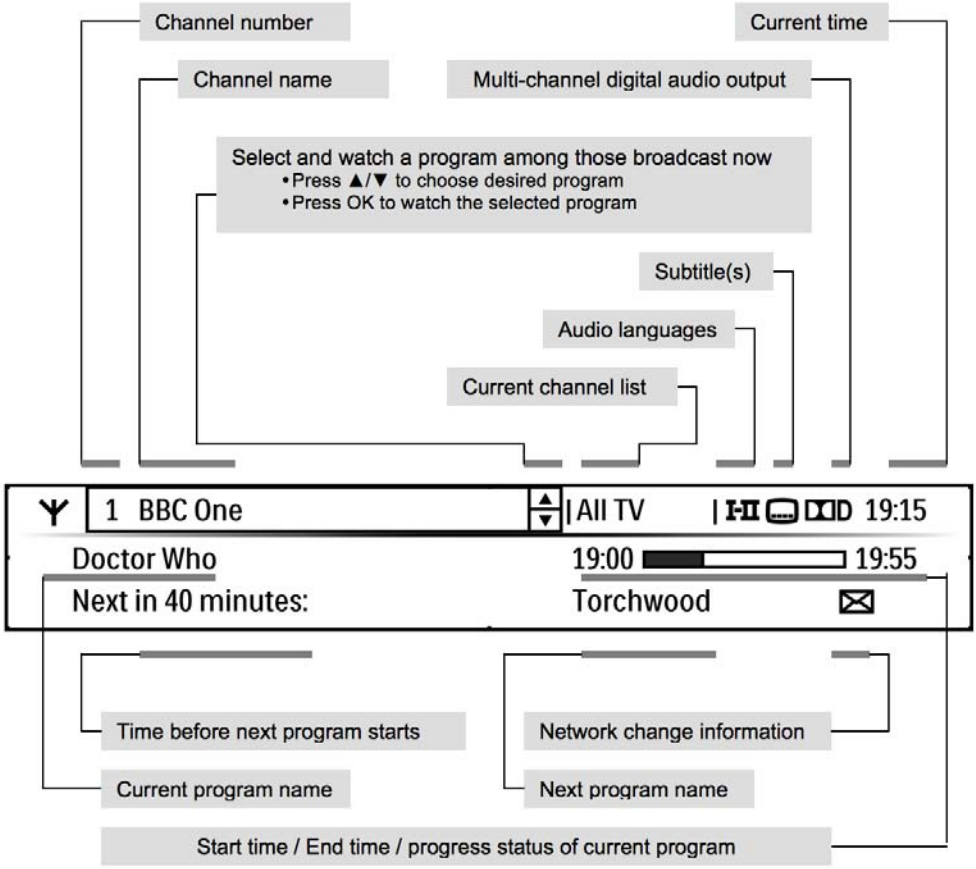
2. To display more information about the current programme on the channel listed in the channel banner, press **INFO** ⓘ again.



To display what programme is on next (on the channel listed in the channel banner), press the **yellow** button.

3 Press **INFO** ⓘ a third time, or press **EXIT** to remove the channel banner without changing the channel. Alternatively, press **BACK** ⮌ to return to the channel banner.

4.5.1 More about the channel banner content



4.6 Using channel lists

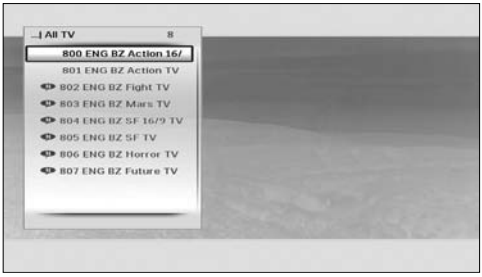
You use the channel list menu to switch to any TV or radio channel from the **All TV** or **All Radio** channel list, or your favourite lists.

Changing channel

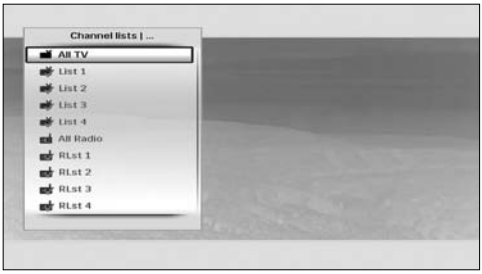
1. Press **OK** to display the current channel list.
2. Use ▲ / ▼ to select the channel you want to watch.
3. Press **OK** to preview the channel; press **OK** again to watch it.

Changing current channel list

1. Press **OK** to display all the channels of the current channel list.



2. Press ◀ to display all the available channel and favourite lists. To create new favourite lists, see page 21.

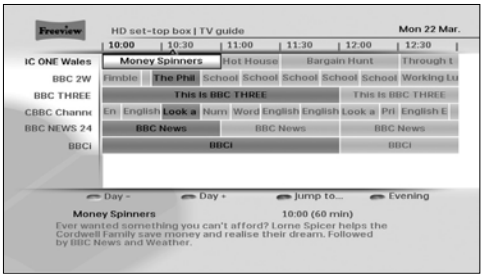


3. Use ▲ / ▼ to highlight the list you want to use.
4. Press **OK** to confirm and display all the channels of the selected list.
5. Use ▲ / ▼ to highlight a channel and press **OK** to preview it. Press **OK** again to watch the channel or press **EXIT** to remove the channel list menu without changing the channel.

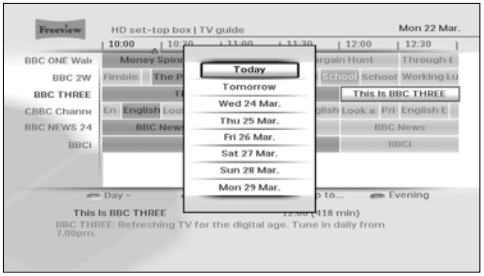
4.7 Using the TV guide

The **TV guide** provides you with a listing of all programmes available on all channels for up to eight days, making it easy to find the programmes you want to watch.

1. Press **GUIDE** 🕮 to display the **TV guide**.



2. Use ◀ / ▶ to see what programmes are on at different times on a channel.
   Use ▲ / ▼ to move through the list of channels.
   Use the **green** (+1 day) and **red** (-1 day) buttons to move forward and backwards by a day through the listings.
   Use the **blue** button to see what programmes are on from 18:00 hours onwards.
   Use the **yellow** button to jump directly to the programme list for any of the next 7 days.



3. Press **GUIDE** 🕮, **BACK** ⮌ or **EXIT** to remove the **TV guide**.

Notes

- You can also schedule a recording using the **TV guide** (see page 16).
- Some channels may not offer an extensive **TV guide**.

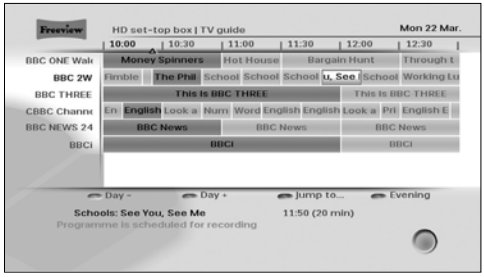
4.8 Scheduling/stopping recordings

To record a programme, you must first connect your HD receiver to your VCR or any recording device using a SCART cable (see page 28), and then schedule a recording using the **TV guide** or by setting a recording timer.

Using TV guide

1. Press **GUIDE** to display the **TV guide**.
2. Use ▲ / ▼ / ◄ / ► to highlight the programme you want to record and press **OK**. In the menu that pops up, press one of the following:
   - **OK** again to confirm the scheduling of the recording.
   - **EXIT** to return to the TV channel that you were watching prior to displaying the **TV Guide**.
   - **BACK** to return to the **TV Guide**.

IMPORTANT NOTE:
If the scheduling is made on a 'Now' programme (highlighted in blue), your HD receivers starts recording instantly and is locked on the programme to secure its recording. Any attempt to control the receiver displays **rEC** on your HD receiver's front panel. You must STOP the recording to recover the control of your receiver.
If the scheduling is made on a later programme, your HD receiver will record it at the set date and time. The program is highlighted in red in the **TV Guide**.

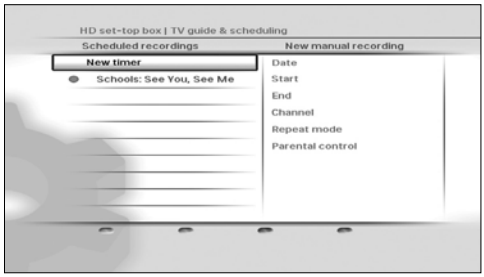


HOW TO STOP A RECORDING?

When a programme is being recorded, you cannot switch to any other channel or use any of the other features of your HD receiver. TO STOP/CANCEL A RUNNING RECORDING and return to normal live TV, press **EXIT** first then **OK** immediately after.

Using recording timers

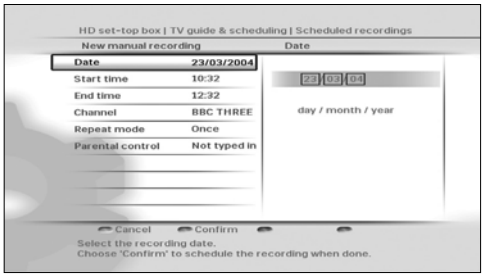
1. Press **MENU**. to display the **Main** menu.
2. Make sure that **TV guide & scheduling** is highlighted and press ► or **OK**. The **TV guide & scheduling** menu appears.
3. In the **TV guide & scheduling** menu, use ▲ / ▼ to highlight **Scheduled recordings** and press ► or **OK**.
   The **Scheduled recordings** menu appears.



4. To schedule a new recording, make sure **New timer** is highlighted and press ► or **OK**. The **New manual recording** menu appears.

Note

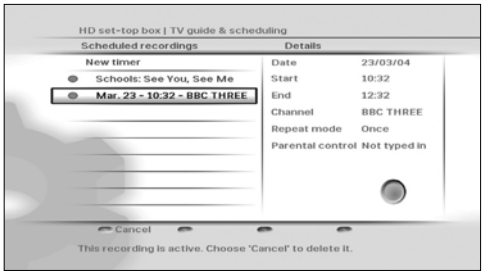
If parental control is on while scheduling a recording on a locked channel, we recommend you to go to the **Parental control** menu and enter your PIN code (then reported as "Typed in"). In that case, the recording will start automatically.



Use ▲ / ▼ to highlight the setting you want to change and press ▶ or **OK**. Use ▲ / ▼ to change it and press the **green** button to confirm the recording timer.

Press the **red** button to cancel the recording timer and return to the **Scheduled recordings** menu.

5 To delete an already scheduled recording, use ▲ / ▼ to highlight it and press the **red** button.



6 Press **EXIT** to return to watching live TV or press **Menu** to return to the **Main** menu.

4.9 Using the Tools menu

You use the **Tools** menu to display subtitles, change the audio language, control audio description and synchronise audio with video.

1 Press **OPTIONS** to display the **Tools** menu.

2 Use ▲ / ▼ to highlight the setting you want to change.

3 Press ▶ or **OK** and then press ▲ / ▼ to select an option from the list that appears on the right. You can change these settings using the **Tools** menu:

Settings	Options
Subtitles	On Off (default)
Audio language	Available languages depend on the broadcast programme.
Audio description	On Off (default)
Audio desc. level	Set the audio description volume. (Available if 'Audio description' is turned on and broadcast.)
Lip sync	Set the **DIGITAL** audio output delay to synchronise audio with video.

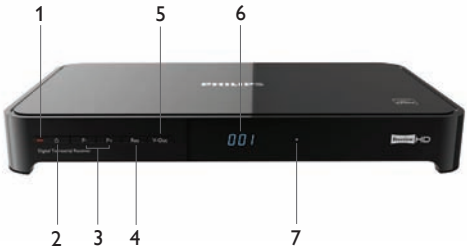
4 Press ◀ to save your changes and return to the tools menu.

5 Press **OPTIONS**, **BACK** or **EXIT** to remove the tools menu.

5 Using more of your HD receiver

5.1 HD receiver

Front panel



1 **Standby indicator:**
Red: initialisation mode and standby mode
Orange: active-standby mode

2 ⏻ **standby button**: Switches your HD receiver into or out of standby

3 **P+ & P- buttons**: To change channel up or down

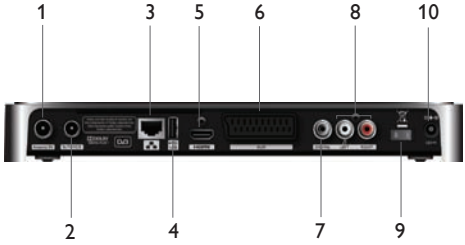
4 **Res button**: To change the HDMI output resolution to **Auto** (default), **576i**, **576p**, **1080i** or **1080p**

5 **V-Out button**: To change the active video output to **HDMI** (default) or **SCART**

6 **Display**: 4-digit display

7 **HD indicator**: Lights up when you are watching an HD channel

Rear panel



1 **Antenna IN***: To connect your aerial cable from the wall socket

2 **To TV/VCR***: Antenna output to TV/VCR (antenna signal)

3 **Ethernet***: To connect your HD receiver to an Internet access point

4 **USB 2.0***: Universal Serial Bus port

5 **HDMI***: To connect to the HDMI input connector on your high-definition TV

6 **AUX SCART***: To connect to the SCART connector on your standard-definition TV or any recording device such as a VCR.

7 **DIGITAL audio out***: To connect an hi-fi amplifier

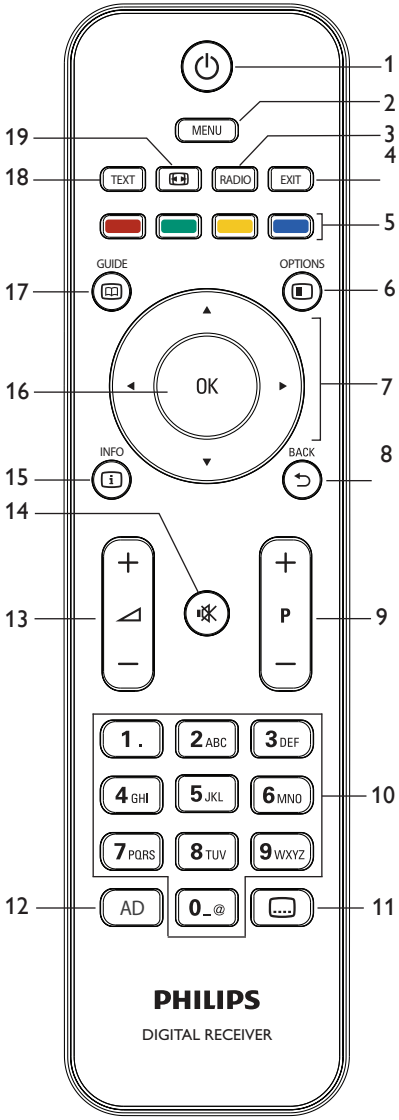
8 **AUDIO L + R***: To an hi-fi amplifier

9 **ON/OFF switch**: To switch on/off your HD receiver

10 **Power***: To connect the 12 V power supply unit

* Safe extra low voltage

5.2 Remote control



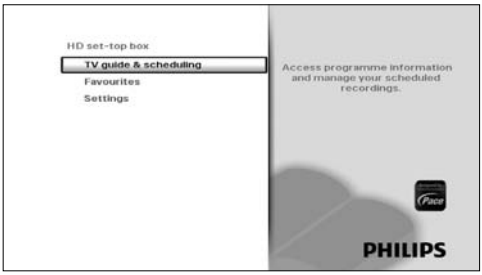
1	⏻	Switch to standby or wake up from standby
2	MENU	Open/close 'Main' menu
3	RADIO	Switch between radio and TV channels
4	EXIT	Remove menus, channel banner and channel lists
5	Colour buttons	Used in contextual menus and MHEG applications
6		Open/close 'Tools' menu
7	▲, ▼, ◀, ▶	Move up/down/left/right within lists or menus
8	⮌	Return to the previous channel or menu screen
9	P +/-	Change channel up/down
10	Number buttons	Alphanumeric keypad
11		Turn subtitles on/off
12	AD	Turn Audio Description on/off
13	VOL +/-	Turn volume up/down
14		Mute/restore sound
15		Open/close channel banner
16	OK	Confirm selection or schedule a recording in the 'TV guide'
17		Open/close 'TV guide'
18	TEXT	Open/close MHEG applications
19		Change picture format setting

5.3 Front-panel display messages

	Your HD receiver is starting up
	Your HD receiver is tuned to TV channel 25. Your HD receiver displays **r025** when it is tuned to radio channel 25.
	- **rEC** is displayed each time you press a button on your remote control to indicate that: • A recording is in progress • Your HD receiver is locked on to the programme being recorded - To unlock your HD receiver, you must stop the recording by pressing **EXIT** and then **OK**.
	Antenna signal is not available
	Subtitle on. **oFF** indicates that subtitles are turned off.
	Main menu is open
	Channel list is open
	TV guide is open
	Your HD receiver is switching to standby mode
	HDMI is the active A/V output (recommended) of your HD receiver
	AUX SCART is the active A/V output of your HD receiver
	Picture format is 4:3 with black bars – **16:9E** indicates that the picture format is 4:3 stretched to 16:9 – **16:9o** indicates that the picture format is 4:3 zoomed in to the screen width.
	Software update is starting – **L0** to **L100** indicate that the software is being loaded – **S0** to **S100** indicate that the software is being loaded – **End** indicates a successful update – **FAiL** indicates a failed update.
	Automatic resolution adjustment (recommended) – other possible settings are indicated as **576i**, **576P**, **720P**, **180i** (for 1080i) and **180P** (for 1080p).
	Your HD receiver is in the first installation setup

5.4 Using the Main menu

1 Press **MENU** to display the **Main** menu.



2 Use ▲ / ▼ to highlight a setting.
3 Press ▶ or **OK** to confirm your choice.
4 Press **BACK** ⮌ to return to the **Main** menu. Press **BACK** ⮌ again, **MENU** or **EXIT** to remove the **Main** menu.

Note

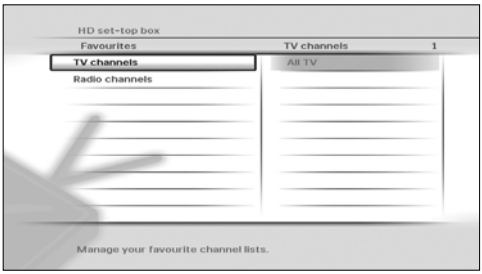
Use the **colour** buttons to perform contextual actions, which are described at the bottom of the screen.

5.4.1 Managing favourite lists

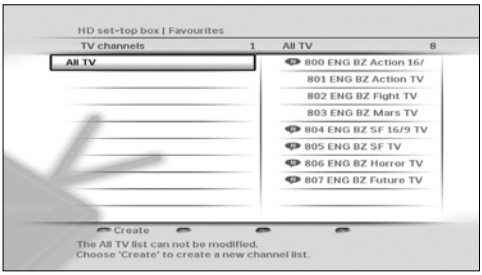
Your HD receiver allows you to create favourite lists that include the channels you watch the most. This lets you access your favourite channels quickly instead of scrolling through the entire list.

Creating a favourite list

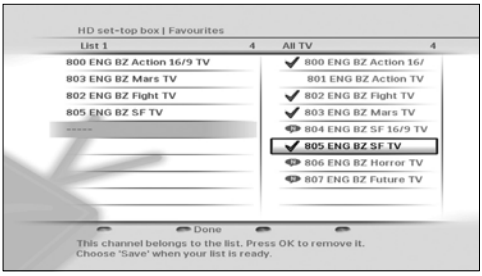
1 On the **Main** menu, make sure that **Favourites** is highlighted and press ▶ or **OK**.
The **Favourites** menu appears.



2 Use ▲ / ▼ to highlight either **TV channels** or **Radio channels**, and press ▶ or **OK**. The menu now displays the selected full channel list (**All TV** or **All Radio**) and the existing favourite lists.



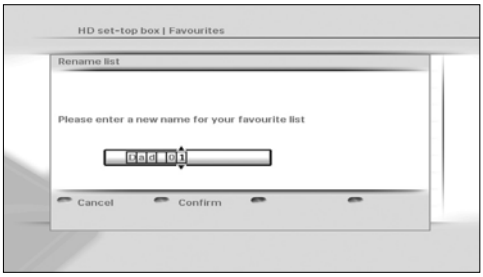
3 Press the **red** button to create a new favourite list. Your HD receiver, by default, names the new favourite list as **List1** (for TV channels) or **RLst1** (for radio channels). You can create up to four separate TV and radio favourite lists. To rename these lists, see page 22.
4 To add a channel to your favourite list, use ▲ / ▼ to highlight a channel and press **OK**.



5 To remove a channel from your favourite list, use ▲ / ▼ to highlight it and press **OK**.
6 When you are finished adding all your channels, press the **green** button.
Press ◀ to return to the **Favourites** menu.

Renaming favourite lists

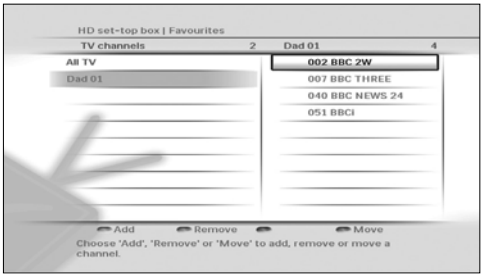
1. From the **Favourites** menu, use ▲ / ▼ to highlight either **TV channels** or **Radio channels** and press ▶ or **OK**.
   The menu now displays the default channel list (**All TV** or **All Radio**) and any existing favourite lists.
2. Use ▲ / ▼ to highlight the favourite list that you want to rename, and press the **blue** button.
3. In the **Rename list** menu that pops up, use ▲ / ▼ or the **number** buttons to rename your favourite list. Press the **green** button to confirm or press the **red** button to return to the previous menu without saving any changes.



4. Press ◀ or **BACK** ⮌ to return to the **Favourites** menu.

Modifying/Editing favourite lists

1. From the **Favourites** menu, use ▲ / ▼ to highlight either **TV channels** or **Radio channels** and press ▶ or **OK**.
   The menu now displays the default channel list (**All TV** or **All Radio**) and any existing favourite lists.
2. Use ▲ / ▼ to highlight the favourite list that you want to modify, and press ▶ or **OK**.



3. To add a channel, press the **red** button. Then use ▲ / ▼ to highlight the channel you want to add and press **OK**. Press the **green** button to save your changes.
4. To remove a channel, use ▲ / ▼ to highlight it and press the **green** button.
5. To reorder the channels in your favourite list, use ▲ / ▼ to highlight a channel you want to move and press the **blue** button.
   Use ▲ / ▼ to move the channel up or down and press **OK**.
6. Press ◀ to return to the **Favourites** menu.

Deleting favourite lists

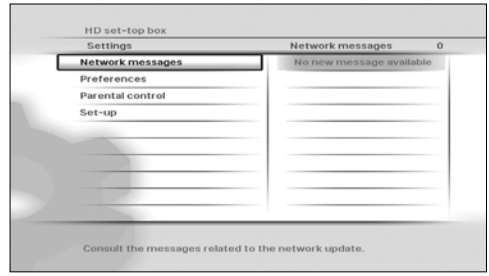
1. From the **Favourites** menu, use ▲ / ▼ to highlight either **TV channels** or **Radio channels** and press ▶ or **OK**. The menu now displays the default channel list (**All TV** or **All Radio**) and any existing favourite lists.
2. Use ▲ / ▼ to highlight the favourite list that you want to delete, and press the **green** button.
3. Press ◀ or **BACK** ⮌ to return to the **Favourites** menu.

5.4.2 Using the Settings menu

You use the **Settings** menu to customise your HD receiver. For example, you can lock certain channels, change display settings, etc.

Accessing the Settings menu

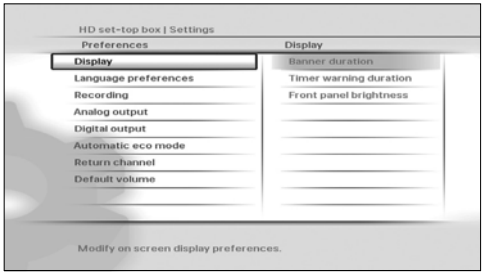
1. From the **Main** menu, use ▲ / ▼ to highlight **Settings** and press ▶ or **OK**.
   The **Settings** menu appears.



2. Press ◀ or **BACK** ⮌ to return to the **Main** menu.

Setting your preferences

1 From the **Settings** menu, use ▲ / ▼ to highlight **Preferences** and press ► or **OK**. The **Preferences** menu appears.



2 Use ▲ / ▼ / ◄ / ► / **OK** to navigate through the settings and options, and make changes.

3 Press ◄ or **BACK** ⮌ to save your changes and return to the previous menu.

You use the **Preferences** menu to change these settings:

Display

- **Banner duration** - Use this to set the length of time (3 to 10 seconds) that the channel banner remains on-screen when you change channel. By default, it is set to **5 seconds**.
- **Timer warning duration** - Use this to set how soon before the start of a program should the record-timer alert you. The available options are **30 seconds before**, **1 minute before** (default), **2 minutes before** or **5 minutes before**.
- **Front panel brightness** - Use this to set the brightness of the front-panel display. You can set this to **Low**, **Medium** (default) or **High**.

Language preferences

- **Information language** - Use this to set your preferred language for displaying programme information to **English** (default), **Gaelic**, **Welsh** or **Irish**.
- **Audio language** - Use this to set your preferred audio language to **English** (default), **Gaelic**, **Welsh** or **Irish**.
- **Default subtitles mode** - Use this to set how you prefer to display subtitles. You can set this to **Activated**, **Not activated**, **Auto when no correct audio** (default), **Auto when audio is muted** or **For hearing-impaired**.
- **Subtitles language** - Use this to set your preferred language for subtitles to **English** (default), **Gaelic**, **Welsh** or **Irish**.

Recording

- **Record Link** - Use this setting to enable or disable the control, by your HD receiver, of the start-stop recording function of your Video or DVD-R recorder (see the note on page 29).

Analog output

- **Video on AUX Scart** - Use this to set the type of analogue video signals that are output on the **AUX SCART** connector of your HD receiver. You can set this to **RGB** (default when V-Out is set to AV) or **CVBS** (default when V-Out is set to HDMI).
- **Audio on AUX Scart** - This setting applies when your HD receiver is connected via a SCART Cable to a standard-definition TV. Use this to set the type of analogue audio signals that are output on the **AUX SCART** connector of your HD receiver. You can set this to **Mono** or **Stereo** (default).
- **TV format** - Use this to set the format of the analogue video that is output on the **AUX SCART** connector of your HD receiver. You can set this to **4/3 Letter Box**, **4/3 Centre Cut Out** or **16/9** (default). The options determine how widescreen (16:9) programmes show on a standard-definition TV with aspect ratio of 4:3.

Digital output

- **HDMI output resolution** - Use this to set the HDMI video resolution to **576i**, **576p**, **720p**, **1080i**, **1080p**, **Auto** (default) or **Original**. Note that you can also change this setting using the **RES** button on the front panel of your HD receiver.

- **Audio capabilities on HDMI** - Use this to set the HDMI audio format to **PCM** (default) or **Auto***.
- **Audio capabilities on S/PDIF** - Use this to set the S/PDIF audio format to **PCM** (default) or **Dolby Digital***. You can also set this to **Not connected**.
- **Easy Link mode** - For future use.
- **TV format** - Use this to set the format of the high-definition video that is output on the **HDMI** connector of your HD receiver. You can set this to **16/9 Pillar Box** (default), **16/9 Full Screen** or **16/9 Zoom**. These options determine how standard (4:3) programmes show on a TV with aspect ratio of 16:9. Note that you can directly change this setting using the **picture format** button on your remote control.

* The **Auto** and **Dolby Digital** settings on HDMI or S/PDIF are not recommended until your HD receiver has been updated with the appropriate software.
Visit www.philips.com/support regularly to check if the relevant software update is available.

Automatic eco mode

Use this to set the time after which your inactive HD receiver automatically enters into the active standby mode. You can set this to **off**, **3 hours** (default), **4 hours**, **5 hours**, **6 hours**, **7 hours** or **8 hours**.

Return channel

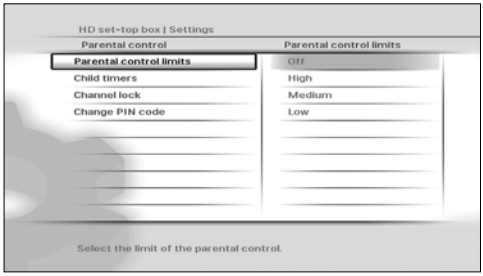
Use this to configure your HD receiver to connect to the internet, which then serves as a return channel to your Digital TV service provider. The return channel is necessary to use any interactive applications that your Digital TV service provider may offer. Before configuring the return channel, be sure to connect your HD receiver to your network router using an Ethernet cable. Then choose either **DHCP** to set up your connection automatically or manually enter all the parameters like **IP address**, **Network mask**, **Gateway** and **DNS** settings to match your router's settings.

Default volume

Use this to set the default volume at wake-up of your HD receiver.

Changing parental control settings

1 From the **Settings** menu, use ▲ / ▼ to highlight **Parental control** and press ▶ or **OK**. The **Parental control** menu appears.

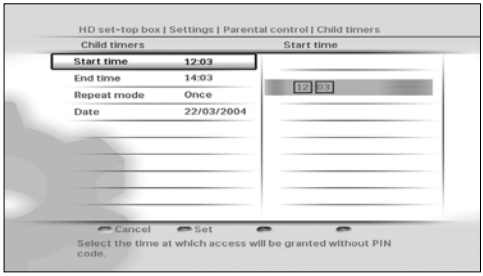


2 To change the parental control severity settings, use ▲ / ▼ to highlight **Parental control limits**, and press ▶ or **OK**.
Use ▲ / ▼ to highlight the severity level you want to set, and press ◀ or **OK** to save your changes and return to the previous menu. Note that if you set the **Parental control limits** to **Off**, the child timers and channel lock settings (see below) will not have any effect.

Note

When **Parental control limits** is set to **ON**, menu items like **Parental control** and **Set-up** will be protected by the PIN code.

3 To create a new child timer, use ▲ / ▼ to highlight **Child timers**, and press ▶ or **OK**. Make sure that **Define child timer** is highlighted and press ▶ or **OK**.



Use ▲ / ▼ / ◄ / ► to set the time period during which you will be able to watch any unlocked channel without having to enter your PIN code. Press the **green** button to confirm.
To delete the child timer, make sure **Modify child timer** is highlighted and press the **red** button.
To modify the child timer, make sure **Modify child timer** is highlighted and press ► or **OK**. Make the required changes and press the **green** button to confirm.

4 To lock a channel, use ▲ / ▼ to highlight **Channel lock**, and press ► or **OK**.
Use ▲ / ▼ to highlight the channel you want to lock, and press **OK**. Press ◄ or **BACK** ⮌ to return to the previous menu.

5 To change your PIN code, use ▲ / ▼ to highlight **Change PIN code**, and press ► or **OK**.
Use the **number** buttons to first enter your current PIN code and then enter your new PIN code. Use the **number** buttons to enter your new PIN code again, for confirmation. If you correctly entered the PIN codes, your HD receiver briefly displays a message confirming that your PIN has been changed, and then returns to the **Parental Control** menu.

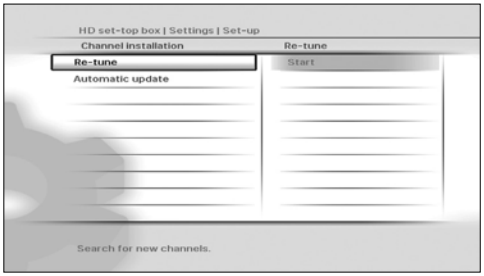
Note

Your new PIN code can be any 4-digit number other than the default PIN code (0000).

6 Press ◄ or **BACK** ⮌ to return to the **Settings** menu.

Retuning your HD receiver

1 From the **Settings** menu, use ▲ / ▼ to highlight **Set-up** and press ► or **OK**.
2 In the **Set-up** menu that appears, make sure **Channel installation** is highlighted and press ► or **OK**.
3 In the **Channel Installation** menu that appears, make sure **Re-tune** is highlighted and press ► or **OK**.



A progress screen displays to confirm that the search is taking place.
Press the **green** button to save any new channels and return to the **Set-up** menu.
Press the **red** button to cancel the search and return to the **Set-up** menu.

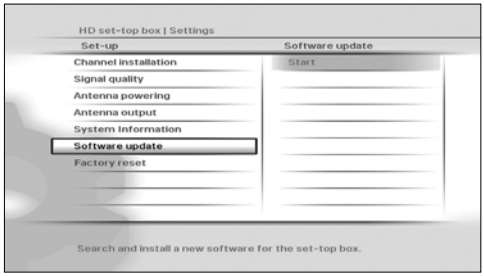
Note

The **Network messages** menu (under the **Settings** menu) alerts you of any changes to your network such as recently added channels, services, etc. To save time, check this menu before retuning your HD receiver.

Updating your HD receiver's software manually

You can manually update your HD receiver software using a USB memory stick.

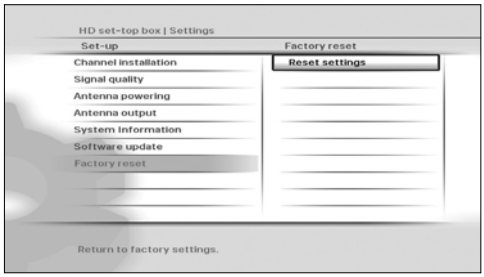
1 Download the latest software file from the Philips website (www.philips.com/support), unzip it and transfer it to a USB memory stick. Be sure to place the downloaded file in the top-level folder of your USB memory stick.
2 Connect your USB memory stick to the USB connector on the rear panel of your HD receiver.
3 From the **Settings** menu, use ▲ / ▼ to highlight **Set-up** and press ► or **OK**.
4 In the **Set-up** menu that appears, use ▲ / ▼ to highlight **Software update** and press ► or **OK**.



Your HD receiver locates the software available on your USB memory stick and displays a confirmation message. Press the **green** button to install the software immediately. Press the **red** button to cancel and return to the previous menu. If you press the **green** button, your HD receiver updates the software and restarts. You may, depending on the update, then be required to complete the first installation setup (see page 10).

Restoring factory default settings

1. From the **Settings** menu, use ▲ / ▼ to highlight **Set-up** and press ▶ or **OK**.
2. In the **Set-up** menu that appears, use ▲ / ▼ to highlight **Factory reset** and press **OK** twice.



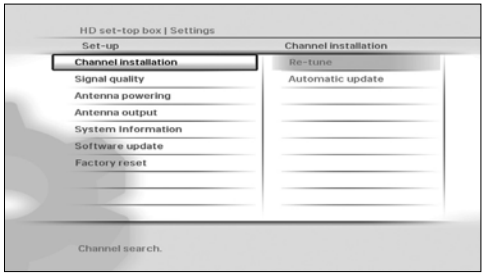
A message appears asking you to confirm. If you are sure, press the **green** button, or press the **red** button to cancel and return to the previous menu. If you press the **green** button, your HD receiver restores the factory default settings and restarts. You will then be required to complete the first installation setup (see page 10).

Note

Resetting your HD receiver to the factory default settings erases all of your preferences and settings. For example, all of your favourite lists and recording timers will be erased.

Changing other system settings

1. From the **Settings** menu, use ▲ / ▼ to highlight **Set-up** and press ▶ or **OK**. The **Set-up** menu appears.



2. To turn on or off the channel updates that automatically happen when your HD receiver is in the active-standby mode, make sure **Channel installation** is highlighted and press ▶ or **OK**. Press ▼ to highlight **Automatic update** and press ▶ or **OK**. Use ▲ / ▼ to highlight **On** or **Off**. Press ◀ or **BACK** ⮌ to save your changes and return to the previous menu.
3. To check the signal quality of any channel that you are receiving, press ▼ to highlight **Signal quality** and press ▶ or **OK**. In the **Signal quality test** menu that appears, use ▲ / ▼ to select a channel that you want to check. Press ◀ or **BACK** ⮌ to return to the previous menu.
4. To turn on or off powering your **active-indoor** antenna using the **Antenna IN** connector on the rear panel of your HD receiver, press ▼ to highlight **Antenna powering** and press ▶ or **OK**. Use ▲ / ▼ to highlight **Off** or **On**. Press ◀ or **BACK** ⮌ to save your changes and return to the previous menu.

Note

Set **Antenna powering** to **On** only if you need to power an active-indoor antenna that requires a 5 V power supply not exceeding 50 mA current consumption. Be sure to read your indoor antenna's user manual before turning this setting on.

5 To control antenna output, press ▼ to highlight **Antenna output** and press ▶ or **OK**. Use ▲ / ▼ to highlight **Inactive in eco mode** or **Always active**.
Press ◀ or **BACK** ⮌ to save your changes and return to the previous menu.

Note

If **Antenna output** is set to **Inactive in eco** mode while **Antenna powering** is set to **On**, the device(s) connected to the **To TV/VCR** output will not receive the antenna signal.

6 To see information about your HD receiver, press ▼ and highlight **System information**. Details such as software version, model number, serial number, etc., are displayed on the right.

7 Press ◀ or **BACK** ⮌ to return to the **Settings** menu.

6 Maintenance

6.1 Cleaning

For cleaning, use a soft, damp (not wet) cloth. Never use any abrasive cloth and aerosol cleaners

6.2 Replacing

Your HD receiver does not contain any user-serviceable parts. Do not attempt to open it. All maintenance work must be carried out by qualified service centres.

6.3 Disposing

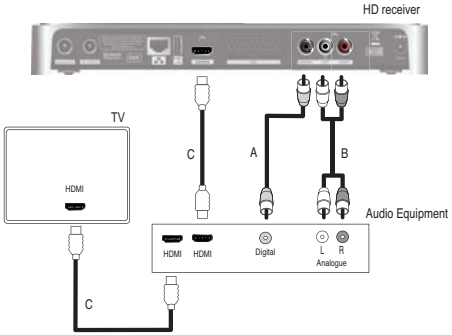
Your HD receiver is designed and manufactured with high-quality materials and components, which can be recycled and reused.

Please inform yourself about the local separate collection process for electrical and electronic products.

Please act according to your local rules and do not dispose of your old products with your normal household waste. The correct disposal of your old product will help prevent potential negative consequences for the environment and human health.

7 Accessories and connections

7.1 Connecting your audio equipment



Option A – Electrical S/PDIF connection (Digital)

Connect the **DIGITAL** audio output of your HD receiver to the relevant audio input of your audio equipment using an electrical S/PDIF cable (not supplied).

Refer to the user manual of your audio equipment to choose the proper digital audio input.

Note

With a digital connection via the **DIGITAL** output of your HD receiver, mute and volume operations are managed by your audio equipment and not by your HD receiver.

Option B – Analogue connection

Connect the L/R audio outputs to the relevant audio inputs of your audio equipment using a double CINCH cable (not supplied).

Refer to the user manual of your audio equipment to choose the proper analogue audio inputs.

Option C - HDMI connection

Recent amplifiers are fitted with one or more HDMI source input(s) and one HDMI output.

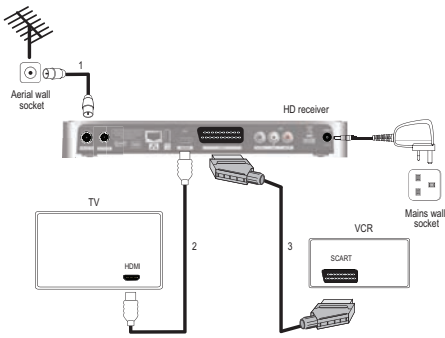
Recommended connection

- Connect the HDMI output of your HD receiver to an HDMI source input of your amplifier.
- Connect the HDMI output of your amplifier to an HDMI input of your TV.

System settings

- For your HD receiver, set the **Audio capabilities on HDMI** setting (under **Menu** > **Settings** > **Preferences** > **Digital output**) to **AUTO**.
- Select the correct A/V source on your TV.
- Select the correct A/V source on your amplifier.
- Volume controls and necessary Lip sync adjustments are performed by your amplifier. Refer to your amplifier's user manual.

7.2 Connecting your recording equipment



1. Connect the aerial cable (not supplied) from the aerial wall socket to the **Antenna IN** connector on the rear panel of your HD receiver.
2. Use the supplied HDMI cable to connect the **HDMI** connector on the rear panel of your HD receiver to the HDMI input connector of your TV.

3 Use a SCART cable (not supplied) to connect the **AUX** connector on the rear panel of your HD receiver to the SCART input connector of your VCR or other recording equipment.

4 Connect your HD receiver and other equipment to the mains.

Notes

Double Scheduling

To succeed making recording, do not forget to set timers on your video or DVD recorder according to your HD receiver's recording schedulings.

How to avoid double scheduling?

Your recorder is fitted with a feature allowing its start-stop control compatible* with your HD receiver.

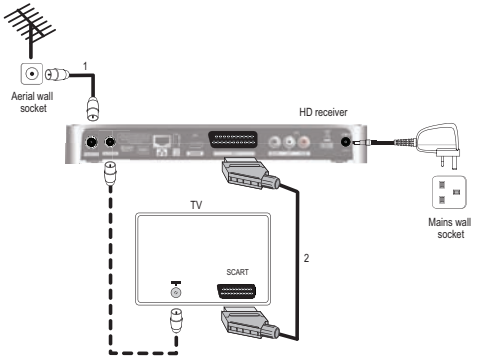
* The recorder function is activated by the video signal at its SCART input. Once the function is active, the recording starts when video is on and stops when video is off.

If your Video or DVD-R recorder supports the above function, the simple scheduling of your HD receiver will automatically control your recorder.

Necessary system installation

- Enable 'Recorder Control' on your Video or DVD-R recorder. Refer to the user manual of your recorder.
- Set the **Recording link** setting of your HD receiver (under **Menu** > **Settings** > **Preferences** > **Recording**) to **ON**.

7.3 Connecting your standard-definition TV



1 Connect the aerial cable (not supplied) from the aerial wall socket to the **Antenna IN** connector on the rear panel of your HD receiver.

2 Use a SCART cable (not supplied) to connect the **AUX** connector on the rear panel of your HD receiver to the SCART input connector of your standard-definition TV.

3 Connect your TV to the mains. Use your TV's remote control to select the SCART input connector, which is connected to your HD receiver, as the A/V source. If necessary, refer to your TV's user manual.

4 Connect your HD receiver to the mains and wait until your HD receiver wakes up ('InSt' appears on the front-panel display).
Press the **V-Out** button on the front panel twice. 'AU' now appears on the front-panel display and the 'Welcome' screen appears on your TV. See section 3.3, Installing your HD receiver, on page 10 for instructions on completing the first installation setup from step 3.

Note

Optionally, you can also use the supplied RF cable to connect the RF output connector (labelled **To TV/VCR**) of your HD receiver to the RF input connector of your TV.

8 Guarantee and service

For the Philips warranty applicable to your HD receiver, please visit the Philips website: www.philips.com/guarantee.
In case you do not have an Internet connection, please contact your local Philips Consumer Care Centre (see page 37).

9 Technical data

This product is in conformity with European 95/47/EC and 2002/21/EC directives.
The product complies with the following European council Directives: 2006/95/EEC and 2004/108/EC.

Video decoding

Standard definition

- MPEG2 MP@ML
- MPEG4 AVC MP@L3
- Video bit rate ≤ 15 Mbit/s
- Resolution: 576i max
  720x576 pixels interlaced
- Picture format 4:3 et 16:9

High definition

- MPEG2 MP@HL
- MPEG4 AVC HP@L4
- Video bit rate ≤ 20 Mbit/s
- Resolution of broadcast: 720p, 1080i
- Upscale up to: up to 1080p50
- Content protection: HDCP on HDMI

Audio Decoding

- MPEGI layer I, II
- Dolby Digital
- HE-AAC stereo / Multichannel
- Dolby Digital/HE AAC to stereo down-mixing
- Dolby Digital Plus to Dolby Digital transcoding
- HE-AAC to Dolby Digital transcoding*

* Feature subject to future product software upgrade

Convenience

- Automatic installation
- HD reception indicator
- Automatic channel update
- TV and Radio modes
- 4 x favorite TV channel lists
- 4 x favorite Radio channel lists
- Program list editing: Add, Move, Delete
- Parental control – Child lock
- 8 days Electronic Program Guide

- Event timer 8
- Event programming via EPG
- DVB subtitling
- Digital TXT / MHEG with Interaction channel
- Video scaling on HDMI output: Auto, Original
  576i, 576p, 720p, 1080i, 1080p50
- Dolby Digital 5.1 audio output
- ECO power management
- IP address assignment: Manual or DHCP
- Software update:
  Update via OTA download
  Local update via USB

Application system resources
- Processor STi 7105

Reception - Demodulation
- Reception of DVB-T broadcast (EN 300744)
- Reception of DVB-T2 broadcast (acc. D-Book 6.1)
- Demodulation type: COFDM FFT
- Input frequency range: UHF IV / V
  470 – 862 MHz
- Active RF Loop-through:
  Bandwidth 47 - 862 MHz
  Switch to passive loop-through in standby mode
- Channel bandwidth (BW): 8 MHz
- Network: MFN / SFN

Antenna control for indoor aerial
- Via RF IN connector
- DC powering : 5 Volts / 50 mA
- Switchable via menu: On/Off

Front-panel display / buttons
- 4 x 7 segment LED display
- 1x bi-color LED
- 1x blue LED
- 5 x Buttons: Standby, P-, P+, Res, V-Out

Rear panel connections
- RF in: type IEC 169-2 female
- RF out: type IEC 169-2 male
- HDMI output
- AUX SCART configurable by menu
  - SCART VCR configuration (for recorder)
    Outputs: CVBS*, fixed level L/R audio
  - SCART TV configuration (for a TV)
    Outputs: CVBS*or RGB/FB, fixed level L/R audio, Slow blanking
- L/R analogue Audio output
- Digital audio output:
  Cinch electrical SPDIF
- DC power inlet
- RJ45
- USB 2.0 (Master)

*Video standard: PAL

Accessories
- Remote control
  Protocol: RC6
- Batteries: 2 x 1.5V type AAA/R03
- User manual
- QSG
- Freeview flyer
- Retune flyer
- HDMI cable
- Coaxial RF cable
- AC/DC power adaptor incl. mains cord

Miscellaneous
- Temperature range (°C)
  Operating +5 to +45 °C
  Storage -25 to +70 °C
- Mains: AC 230 V +/- 10%, 50 Hz
- Power consumption: < 6 W
  Standby: < 1 W
  Off mode: < 0.3 W
- Weight: 1.4 kg
  Including packaging: 2.3 kg
- Dimensions:
  Product (mm) 290 x 160 x 37
  Packaging (mm) 370 x 235 x 70

Due to continued product improvement, this specification may change without notice.

10 Frequently asked questions

Connection

Your HD receiver does not display any digital TV channels on your TV. You may also see the on-screen message "Signal lost".

- Check that the aerial cable from the aerial wall socket is correctly connected to your HD receiver (see page 10).
- There may be a temporary problem with the reception, caused, for example, by bad weather; try again later.
- Check if there is any network message related to this signal loss. You can access the **Network messages** menu from **Menu** > **Settings** > **Network messages**.

Setup

Your HD receiver does not seem to be working and there are no lights on the front panel.

- Check that the 12 V power supply unit is correctly connected to your HD receiver.
- Ensure that the **ON/OFF** switch on the rear panel of your HD receiver is switched on (is in the '1' position).

Your HD receiver does not seem to be working and a channel number is shown on the front-panel display.

- Check that all connections are properly made (see page 10).
- Check that your TV is plugged into the mains and that it is switched on.
- Check that you have selected the correct A/V channel/source on your TV depending on how your HD receiver is connected to it (that is, using HDMI or SCART). Refer to your TV's user manual for instructions.

Your HD receiver seems to be switching off automatically after some time.

If your receiver automatically goes into standby mode (standby indicator on the front panel lights up), this is due to the Eco mode. The Eco mode is set to 3hours, by default (environmentally friendly product). To modify it, go to **Menu** > **Settings** > **Preferences** > **Automatic Eco mode**, and choose a different value. See page 24.

Your remote control is not working.

- Make sure that you point your remote control directly at your HD receiver and that nothing is between it and your HD receiver. The standby indicator on your HD receiver's front panel should flash each time you press a remote control button.
- Check the batteries and replace them, if necessary.
- If **rEC** is displayed (on the front-panel display) everytime you press a button on your remote control, see below.

Your HD receiver displays "rEC" on the front-panel display each time you press a button on your remote control and your HD receiver is locked.

A recording is running, which locks your HD receiver. To unlock your HD receiver, you must STOP THE RECORDING by pressing **EXIT** and then **OK**.

The picture is not displayed on your HDTV and an HDCP authentication error is displayed.

Your HDTV does not support HDCP, which allows your HD receiver to transmit full-resolution video to your HDTV. As a result, the HDMI output displays a message masking the video, which asks you for changing the resolution down to 576p (see page 18 - **Res** button).

The picture seems to be stretched or squashed.
Check the **TV format** setting under **Digital output** or **Analog output** (**Main** > **Settings** > **Preferences**). Alternatively, press the **picture format** button on your remote control to scroll through the different settings. Also refer to your TV's user manual.

Your HD receiver displays 'err' on the front-panel display when you plug in a USB memory stick.
Reformat your USB memory stick using a computer. Ensure that the filesystem is FAT16 or FAT32.

You cannot find all the channels you think should be available.
Retune your HD receiver (see page 25). Alternatively, reset your HD receiver to its factory default settings (see page 26) and proceed with the first installation setup.

Note
During the first installation, your choice of the network may affect the number of installed channels.

You do not find any HD channels.
Initially, HD programmes are available only on channels 50 and 51. Switch to these channels. Note that the HD indicator on the front panel of your HD receiver lights up while watching an HD channel.
Digital terrestrial broadcasting is progressing in the UK. As digital switch over happens, the number of digital channels available in each region may also increase. Please visit one of the following websites to find out when the digital switch over is scheduled for your area:
www.digitaluk.co.uk
www.freeview.co.uk/availability (coverage checker for HD)

Your HD receiver seems to lock up or get stuck while retuning it to search for new channels.
In parts of the country where the analogue TV services have already been switched off, the time taken to retune can increase. This is because your HD receiver scans for all the transmitters in your area, which can take up to 15 minutes. Please wait for the retune to complete. This is not a fault.

You cannot find all the channels you think should be available even after retuning your HD receiver.
- The missing channels may not be available in your area. Check your coverage on the Freeview website: www.freeview.co.uk.
- Your antenna may need to be upgraded (signal power, position, orientation or cabling).
- A signal booster may be fitted on your antenna. Consider having this removed as amplifiers are normally not required after the digital switch over. Too high a signal level can cause your HD receiver to skip some channels.
- Some early digital receivers manufactured prior to 2004 support only the 2K mode of digital transmissions. As part of the digital switch over, the UK Freeview TV platform will be upgraded to a more robust transmission standard. The change in transmission standard has been authorised by OFCOM and the new standard is supported by products that have the "Digital Tick".
- If you have a SKY box, switch it to standby mode and then retune the terrestrial receiver. If it then receives all expected Freeview channels, then the modulator needs adjusting on your Sky box. Contact Sky to find out how to adjust the modulator.

Your HD receiver found all the expected channels after you retuned it. However, when you turned on your HD receiver the next day, the picture was breaking up and some channels were missing.

Your HD receiver has an automatic retuning feature; this allows it to keep up to date with minor service changes. However, when the signal level of nearby relay transmitters are high or if the antenna signal is being amplified, these problems can occur.

To solve this problem:

- Turn off the automatic channel updates feature of your HD receiver (see page 26).
- Remove any signal amplifiers or boosters that are fitted on your antenna. These are not required after the digital switch over.
- Check that your antenna is aligned properly and is a model adapted for digital signal reception in your area. If you are not sure, please use the services of a recognised CAI antenna installation company.

Although you set Audio capabilities to "Auto" for HDMI or "Dolby Digital" for S/PDIF, your HD receiver does not deliver Dolby Digital 5.1 multi-channel audio output.

- Your HD receiver needs a software upgrade.
- Visit www.philips.com/support regularly to check if the appropriate software for ugrading your HD receiver via USB is available.
- Set the **Audio capabilities** setting to **PCM** until the upgrade of your HD receiver is done.

You get a picture or a freezed picture, a program number on the front display and your receiver seems blocked while not responding to the remote control commands.

Your HD receiver has hung up. You have to reset your HD receiver. Press the standby button on the front panel until **Init** is shown on the front-panel display.

If you have tried all of the actions suggested above and still are not able to resolve the problem, contact your local Philips Consumer Care Centre (see page 37).

11 Glossary

A

Analogue audio
Analogue sound is output from the LEFT/RIGHT audio connectors on the rear panel of your HD receiver. The red and white sockets send audio through two channels, the left and right.

Aspect ratio
Aspect ratio refers to the length-to-height ratio of TV screens. The aspect ratio of a standard TV is 4:3, while the ratio of a high-definition or widescreen TV is 16:9. The letterbox format allows you to watch a video with a wider aspect ratio on a standard 4:3 TV.

D

DHCP
Dynamic Host Configuration Protocol (DHCP) is a network protocol that enables a router or server to automatically assign IP addresses to devices that are part of its network.

Digital audio
Digital sound is available when you use the **DIGITAL** audio connector (coaxial S/PDIF) on the rear panel of your HD receiver. These sockets send audio through multiple channels, instead of just two channels as analogue does.,

Dolby Digital
A surround sound system developed by Dolby Laboratories containing up to six channels of digital audio (front left and right, surround left and right, centre and subwoofer).

DVB
Digital Video Broadcasting

E

EPG
Electronic Programme Guide

EasyLink
The Philips EasyLink™ technology enables you to control multiple devices, which are connected through standard HDMI cables, using a single remote.

H

HDCP
High-bandwidth Digital Content Protection (HDCP) is a type of digital copy protection system. When your set-top is attached via an HDMI cable to an HDCP-compliant HDTV, the HDTV and set-top negotiate a secure link, which allows your set-top to transmit full resolution video to your HDTV.

HDMI
High-Definition Multimedia Interface (HDMI) is a high-speed digital interface that can transmit uncompressed high-definition video and digital multi-channel audio. It delivers perfect picture and sound quality, completely free from noise. HDMI is fully backward compatible with DVI.

HDTV
High-Definition Television

L

Lip Synchronisation
Setting used to synchronise audio with video in case a delay is experienced, in particular, if speech does not match lip movements.

M

MPEG
Motion Picture Experts Group. A collection of compression systems for digital audio and video.

P

PIN Code
A 4-digit code used to prevent access to inappropriate programmes (parental control).

S

SDTV
Standard-Definition Television.

Surround
A system for creating three dimension sound fields full of realism by arranging multiple speakers around the listener.

U

USB memory stick
A small size storage device, which is used to update your HD receiver's software (see page 25). Connect it to the **USB 2.0** connnector on the rear panel of your HD receiver.

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Contact information

DTR 5520/05
Serial number:

UNITED KINGDOM
Phone: 0800 331 60 15

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